

Material: ASTM A 182 F XM-27Cb

Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A 182 F XM-27Cb Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Steel, Pipe and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.010 max.	Annealing or Hardening + Tempering	
Silicon	Si %	0.400 max.		
Manganese	Mn %	0.400 max.		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	25.000 - 27.500		
Molybdenum	Mo %	0.750 - 1.500		
Nickel	Ni %	0.500 max.		
Nitrogen	N %	0.015 max.		
Copper	Cu %	0.200 max.		
			Mechanical Properties	
Niobium	Nb %	0.050 - 0.200	Tensile Strength in Mpa	415 min.
Cu + Ni	Cu% + Ni%	0.500 max.	Yield Strength in Mpa	240 min.
Iron	Fe %	Balance	Elongation in %	20 min.
-	-	-	Reduction of Area in %	45 min.
-	-	-	Hardness in HB	190 max.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S44627	ASTM	USA	Steel, Plate, Sheet and Strip
S44627	UNS	USA	Steel
XM-27	SAE	USA	Steel
STS XM-27	KS	Korea	Steel, Sheet, Plate and Strip
SUS SM-27	JIS	Japan	Steel and Bar
A276 XM-27	ASTM	USA	Steel, Bar and Shapes
A314 XM-27	ASTM	USA	Steel, Bar, Rolling and Forging

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